REMARKS

Claims 1-27 are pending. Claims 20-27 are added. Claims 1-17 and 19

are amended. No new matter is added as a result of the claim amendments.

Interview with Examiner

On February 6, 2008, Yue Li (Agent for Applicants) and Examiner Parries

participated in an interview to discuss proposed amendments to claims 1 and 4.

Objections

Claim 19 is objected to because of the informalities. Applicants have

amended the claim 19, rendering the objection moot at this point.

103 Rejections

Claims 1-8 and 10-19

According to the instant Office Action, claims 1-8 and 10-19 are rejected

under 35 U.S.C. § 103(a) as being unpatentable over Carobolante (US Patent

No. 6,084,378) in view of Alfrey (US Patent Application Publication No.

2003/103364), and further in view of Gay (US Patent No. 6,791,390). Applicants

have reviewed the Carobolante, Alfrey and Gay references, and respectfully

submit that the embodiments of the present invention set forth in claims 1-8 and

10-19 are neither anticipated nor rendered obvious by Carobolante in view of

Alfrey, and further in view of Gay.

A shortcoming of this combination is that Carobolante and Alfrey, alone or

in combination, do not teach or suggest each of the limitations of independent

claims 1, 4, and 11, and Gay fails to teach or suggest a modification of

Carobolante and Alfrey that would remedy the deficiencies of Carobolante and

Alfrey.

Among other reasons, Applicants respectfully submit that Carobolante in view of Alfrey, and further in view of Gay, does not teach or suggest a differential load driving circuit including "a controller for controlling said plurality of power switch driving circuits and said at least one current source switch, and for either selecting said PWM powering mode in which said PWM signal controls said at least one power switch or selecting said linear powering mode in which said first current source supplies current to said load, and for controlling a switchover point between said PWM powering mode and said linear powering mode according to a predetermined threshold to achieve a specified ripple current of said load" as recited in independent claim 1. Claims 2, 3, 7-10, and 17-19 depend from claim 1 and set forth additional limitations of the embodiments of the claimed invention.

Independent claims 4 and 11 contain limitations similar to those contained Thus, by similar rationale, Applicants respectfully submit that Carobolante in view of Alfrey, and further in view of Gay does not teach or suggest an H-Bridge load driving circuit including "a controller for controlling said plurality of power switch driving circuits and said at least one current source switch, and for either selecting said PWM powering mode in which said PWM signal controls said at least two power switches or selecting said linear powering mode in which said at least one current source supplies current to said load, and for controlling a switchover point between said PWM powering mode and said linear powering mode according to a predetermined threshold to achieve a specified ripple current of said load" as recited in independent claim 4. Also, Carobolante in view of Alfrey, and further in view of Gay does not teach or suggest a differential load driving circuit including "a controller for controlling said plurality of power switches and said first current source, and for either selecting a PWM powering mode in which a PWM (pulse width modulation) signal controls at least one power switch of said plurality of power switches or selecting said

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Serial No. 10/624,260 Group Art Unit: 2836 linear powering mode in which said first current source supplies current to said

load, and for controlling a switchover point between said PWM powering mode

and said linear powering mode according to a predetermined threshold to

achieve a specified ripple current of said load" as recited in independent claim 7.

Claims 5-6 depend from claim 4 and set forth additional limitations of the

embodiments of the claimed invention. Claims 12-16 depend from claim 11 and

set forth additional limitations of the embodiments of the claimed invention.

Consequently, Applicants respectfully submit that the embodiments of the

claimed invention set forth in claims 1-8 and 10-19 are not taught or anticipated

by Carobolante in view of Alfrey, and further in view of Gay. Therefore,

Applicants respectfully submit that the basis for rejecting claims 1-8 and 10-19

under 35 U.S.C. §103(a) is traversed.

Claim 9

According to the Office Action, claim 9 is rejected under 35 U.S.C. 103(a)

as being unpatentable over Carobolante in view of Alfrey, further in view of

Walter (US 2003/0155813). Applicants have reviewed the Carobolante, Alfrey,

and Walter references, and respectfully submit that the embodiments of the

claimed invention set forth in claim 9 are neither anticipated nor rendered

obvious by Carobolante in view of Alfrey, further in view of Walter.

As presented above, Carobolante and Alfrey, alone or in combination, fail

to teach or suggest each limitation of independent claim 1, from which claim 9

Furthermore, Walter fails to teach or suggest a modification of depends.

Carobolante and Alfrey that would remedy the deficiencies of Carobolante and

Alfrey.

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Applicants respectfully submit that Walter, alone or in combination with

Carobolante and Alfrey, do not teach or suggest a differential load driving circuit

including "a controller for controlling said plurality of power switch driving circuits

and said at least one current source switch, and for either selecting said PWM

powering mode in which said PWM signal controls said at least one power switch

or selecting said linear powering mode in which said first current source supplies

current to said load, and for controlling a switchover point between said PWM

powering mode and said linear powering mode according to a predetermined

threshold to achieve a specified ripple current of said load" as recited in

independent claim 1.

Consequently, Applicants respectfully submit that the embodiments of the

claimed invention set forth in claim 9 are not taught or anticipated by

Carobolante in view of Alfrey, further in view of Walter. Therefore, Applicants

respectfully submit that the basis for rejecting claim 9 under 35 U.S.C. §103(a) is

traversed.

Conclusions

In view of the foregoing amendments and remarks, Applicants respectfully

submit that the pending claims are in condition for allowance. Applicants

respectfully request reconsideration of the application and allowance of the

pending claims.

If the Examiner determines the prompt allowance of these claims could be

facilitated by a telephone conference, the Examiner is invited to contact the

undersigned at 408-987-5920.

Please direct correspondence to the address given below.

Respectfully submitted,

Dated: <u>4-3</u>, 2008

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